

## Model/Museum Display - Student Packet

### Due Dates Checklist

Check	Date	Assignment
	Thurs. 11/2	Project proposal (Science Topic) page - This is the last page of this packet. You will rip it off and turn it into Ms. Dobler.
	Thurs. 11/30	Background Research - Detailed information about background research can be found on page 3 of this packet and in the packet student's will receive from Ms. Hamm in November.
	Thurs. 12/14	Model design and backdrop display design - Details on page 4.
	Thurs. 1/11	Rough draft of all written work
	Thurs. 2/1	Final Project is due and displayed at the WLPCS STEM Fair

Students will also present in class during the week of 1/22 - 1/26.

Note: Student will receive another packet after Thanksgiving Break that includes detailed directions for the last three deadlines.

## Project Overview

This project asks you to select a specific topic in Science and create a model and/or interactive museum display about that topic. All projects will include a tri-fold display with information about the topic. Your final product should be designed to teach someone else about the specific topic you selected.

In order to be successful with a model/museum display project, you will:

1. Select a topic - You may select any topic related to Science. Think about what specific concepts you have found most interesting and what you want to learn more about.
2. Research your topic - In order to succeed, you need to deeply understand your Science topic. This includes understanding the specific topic as well as understanding the underlying Science concepts (learning about electricity and energy if your display is about solar cars). Ms. Hamm will help get you started with the background research during the first week of November.
3. Brainstorm your display - At this point, you should know if you are creating a model or an interactive display. If you are creating a model, you should begin planning what you want your model to look like and what materials you want to use. You should also begin to plan out what information will be on the tri-fold display board that goes with your model. If you are creating an interactive display, begin planning what type of activity your display will include and what other information you will include on the display board.
4. Model/Exhibit/Backboard Design - Write a formal plan for what you want to build, create, or design. Include details about the sections of information you will include, what materials you plan to use for your model or interactive display, and the Science content you are teaching. This is a step that will get turned in, so ensure it is your best work.
5. "Rough Draft" - Your rough draft should include a draft of all the written work (handwritten or typed). This includes writing for the interactive displays (if appropriate) and the writing that will go on the trifold board. If you are creating a model, your rough draft should also include photo evidence that you have begun to build your model.
6. Editing your written work - Editing includes several steps. You should check for spelling and grammar mistakes. You should ensure that the colors, backgrounds, fonts, and images you use enhance the display rather than distract the learner. You should also show your display to someone else to ensure that each sentence/part makes sense.
7. Final Product- Your final product should look professional. It should include an interactive display or a model with a tri-fold display board behind it.

# Background Research

Product: Due Thursday 11/30

Completed Source Saver and Notes document.

- This document is found in classroom.google.com
- This is the document Ms. Hamm introduced in November
- All **three** sources should be finished

You will turn in at least one full paragraph of research specifically related to your Science Fair topic. A full paragraph means at least 7 sentences. This paragraph will demonstrate that you deeply understand your Science topic. This includes understanding the specific topic as well as understanding the underlying Science concepts (learning about electricity and energy if your display is about solar cars).

Need help finding good sources? Check out the LiveBinder link below (or on the wiki) for a wide variety of pre-approved Science research resources.

[Link to Resources for Research](#)

## Model/Exhibit and Backdrop Design

Product: Due Thursday 12/14

The document, titled **Model/Museum Display - Model/Exhibit and Backdrop Design** can be found in [classroom.google.com](https://classroom.google.com).

By now you should know if you are creating a model or an interactive exhibit to teach others about your topic. This step asks you to plan out all aspects of your display. Remember that your design plan should be as specific as possible, including notes about the sizes, materials, and the information that each part will teach.

In addition to planning your 3D model or interactive exhibit, you will also begin to plan out the information that will be displayed on the tri-fold board that accompanies your project. Your display should have several different subtopics related to your main topic (at least 3). Subtopics are like “mini-chapters” and each section covers one part of the larger topic.

- Identify the subtopics your display will cover.
- Decide the best way to lay out your subtopics. To do this, think through what topics learned need to read first, in order to understand what is coming later and think about how your visuals will guide them through this order.

Within each subtopic, you should list the key facts or ideas that you will teach in that section of your display. **The more specific your outline, the easier it will be to write your draft, which is the next step!**

Note: When you finish, delete the “hints” at the beginning of each section.

# Grading Rubric - Model and Display

Remember that Science Fair counts as much as a test grade.

## \_\_\_\_\_ Prep Work (45)

\_\_\_\_\_ Background Research (9 - 3 sources, 6 - 1 paragraph)

\_\_\_\_\_ Design (4 - Questions, 5 - Drawing, 6 - Organizer)

\_\_\_\_\_ Rough Draft (15 - At least three subtopics, evidence of model, layout shown)

## \_\_\_\_\_ Display Board (35)

\_\_\_\_\_ Model (15 - Clear teaching objective, labeled, detailed)

\_\_\_\_\_ Backdrop (10 - At least three subtopics explained in detail, includes images)

\_\_\_\_\_ Readability (5 – font is neat & large enough to be read from several feet away)

\_\_\_\_\_ Professional and Creative (5 – neat, colorful, ordered)

## \_\_\_\_\_ Oral Presentation (15)

\_\_\_\_\_ Content Knowledge (8 – full understanding, describes in detail, answers questions)

\_\_\_\_\_ Presentation Organization (3 - On Topic, Logical Order)

\_\_\_\_\_ Time Limit (2 - 4-6 minutes )

\_\_\_\_\_ Professionalism (2 - Posture, Eye Contact, Clear Speech, Volume)

## \_\_\_\_\_ Works Cited (5) (5 – MLA; 2 – included)

# Grading Rubric - Interactive Museum Display

Remember that Science Fair counts as much as a test grade.

## \_\_\_\_\_ **Prep Work (45)**

\_\_\_\_\_ Background Research (9 - 3 sources, 6 - 1 paragraph)

\_\_\_\_\_ Design (4 - Questions, 5 - Drawing, 6 - Organizer)

\_\_\_\_\_ Rough Draft (15 - At least three subtopics, evidence of interactive, layout shown)

## \_\_\_\_\_ **Display Board (35)**

\_\_\_\_\_ Content/Backdrop (15 - At least three subtopics explained in detail, includes images)

\_\_\_\_\_ Interactive Display (10 - Clear teaching goal, interactive)

\_\_\_\_\_ Readability (5 – font is neat & large enough to be read from several feet away)

\_\_\_\_\_ Professional and Creative (5 – neat, colorful, ordered)

## \_\_\_\_\_ **Oral Presentation (15)**

\_\_\_\_\_ Content Knowledge (8 – full understanding, describes in detail, answers questions)

\_\_\_\_\_ Presentation Organization (3 - On Topic, Logical Order)

\_\_\_\_\_ Time Limit (2 - 4-6 minutes )

\_\_\_\_\_ Professionalism (2 - Posture, Eye Contact, Clear Speech, Volume)

## \_\_\_\_\_ **Works Cited (5)** (5 – MLA; 2 – included)

Name \_\_\_\_\_

Period \_\_\_\_\_

## Proposal Form (Model/Display - Science Topic)

Due Thursday November 2nd.

1. Write the Science topic your model or museum display will teach others about. Be specific. (Example: Space is not specific. The properties and movement of Titan is specific.)
2. Give a brief summary (2-3 sentences) explaining your initial ideas about what type of model or interactive exhibit you might create. It is okay if this changes later!

If you are working with a partner/group of three, please fill out the questions below. Signing below means that you and your parent understand that this is an out of class project and have carefully thought through how and when you are going to get together with your partner to work.

1. Partner(s) \_\_\_\_\_

2. Parent Signature \_\_\_\_\_